



PTO-1449 (REV. 8-83)		U.S. Department of Commerce Patent and Trademark Office	ATTY. DOCKET: 2002834-0046	IN RE APPLICATION NO.: 09/494,096	
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANT: Bannon et al.			
		FILING DATE: January 28, 2000	GROUP: 1644		
U.S. PATENT DOCUMENTS					
Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
PWK	*5,888,799	Curtiss III	March 30, 1999		
↓	*5,830,463	Duke, et al.	November 3, 1998		
↓	*5,389,368	Gurtiss III	February 14, 1995		
U.S. PATENT APPLICATIONS					
Examiner's Initials:	Serial Number:	Applicant:	Publication Date:	Group:	Art Unit:
FOREIGN PATENT DOCUMENTS					
Examiner's Initials	Document No.	Country	Date	Translation	
				Yes	No
PWK	*CA 2 158 047	Canada	15 September 1994		
	*CA 2 157 596	Canada	29 September 1994		
	*JP 07095887	Japan	11 April 1995		
	*JP 06253851	Japan	13 September 1994		
	*WO 00/54803	PCT	21 September 2000		
	*WO 99/25387	PCT	27 May 1999		
↓	*WO 94/20614	PCT	15 September 1994		
OTHER DOCUMENTS					
Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)				
PWK	*Burks, et al., "Epitope Specificity of the Major Peanut Allergen, Ara h II", <i>J. Allergy Clin. Immunol.</i> 95: 607-611, 1995.				
PWK	*Gayler, et al., "Biosynthesis, cDNA and Amino Acid Sequences of a Precursor of Conglutin δ, A Sulphur-Rich Protein from Lupinus Angustifolius", <i>Plant Molecular Biology</i> , 15: 879-893, 1990.				



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PWK	<p>*Ichikawa, et al., "Solution Structure of Der f 2, the Major Mite Allergen for Atopic Disease", <i>J. Mol. Chem.</i>, 273: 356-360, 1998.</p>			
	<p>*Medaglini, et al., "Mucosal and Systemic Immune Responses to a Recombinant Protein Expressed on the Surface of the Oral Commensal Bacterium Streptococcus Gordonii After Oral Colonization", <i>Proceedings of the National Academy of Sciences of the United States of America</i>, 92(15): 6868-6872, 1995.</p>			
	<p>*Nishiyama, et al., "Analysis of the IgE-epitope of Der f 2, a Major Mite Allergen, by in vitro Mutagenesis", <i>Mol. Immunol.</i>, 32: 1021-1029, 1995.</p>			
	<p>*Nishiyama, et al., "Effects of Amino Acid Variations in Recombinant Der f II on its Human IgE and Mouse IgG Recognition", <i>Int. Arch. Allergy Immunol.</i>, 105: 62-69, 1994.</p>			
	<p>*Takai, et al., "Effect of Proline Mutations in the Major House Dust Mite Allergen Der f 2 on IgE-binding and Histamine-releasing Activity", <i>Eur. J. Biochem.</i>, 267: 6650-6656, 2000.</p>			
	<p>*Takai, et al., "Non-anaphylactic Combination of Partially Deleted Fragments of the Major House Dust Mite Allergen Der f 2 for Allergen-specific Immunotherapy", <i>Mol. Immunol.</i>, 36: 1055-1065, 1999.</p>			
	<p>*Takai, et al., "Determination of the N- and C-terminal Sequences to Bind Human IgE of the Major House Dust Mite Allergen Der f 2 and Epitope Mapping for Monoclonal Antibodies", <i>Mol. Immunol.</i>, 34: 255-261, 1997.</p>			
	<p>*Takai, et al., "Engineering of the Major House Dust Mite Allergen Der f 2 for Allergen-specific Immunotherapy", <i>Nat. Biotechnol.</i>, 15: 754-758, 1997.</p>			
	<p>*Vrtala, et al., "Humoral Immune Responses to Recombinant Tree Pollen Allergens (Bet v 1 and Bet v II) in Mice: Construction of a Live Oral Allergy Vaccine", <i>International Archives of Allergy and Immunology</i>, 107: (1-3): 290-294, 1995.</p>			
✓	<p>*EMBL Accession No. L77197 (March 1996)</p>			
EXAMINER			DATE CONSIDERED	3/15/04
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.				



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U.S. PATENT DOCUMENTS

Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
PJK	*6,218,371	Krieg et al.	April 17, 2001	514	44
↓	*5,061,790	Elting et al.	October 29, 1991	530	402
↓	*4,959,314	Mark et al.	September 25, 1990	435	69.1
↓	*4,849,404	Iwai et al.	July 18, 1989	514	2
↓	*4,658,022	Knowles et al.	April 14, 1987	530	402

U.S. PATENT APPLICATIONS

Examiner's Initials:	Serial Number:	Applicant:	Publication Date:	Group:	Art Unit:

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Document No.	Country	Date	Translation	
				Yes	No

OTHER DOCUMENTS

Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)
PJK	*Del Val, et al., "Thioredoxin Treatment Increases Digestibility and Lowers Allergenicity of Milk", <i>J. Allergy Clin. Immunol.</i> 103(4): 690-697, 1999.
↓	*Hoyne, et al., "Peptide-Mediated Regulation of the Allergic Immune Response", <i>Immunol. Cell Biol.</i> 74(2): 180-186, 1996.
↓	*Vailes, et al., "Fine Specificity of B-Cell Epitopes on Felis Domesticus Allergen I (Fel d I): Effect of Reduction and Alkylation or Deglycosylation of Fel d I Structure and Antibody Binding", <i>J. Allergy Clin. Immunol.</i> 93(1): 22-33, 1994.
↓	*Burns, et al., "Selective Reduction of Disulfides by Tris (2-Carboxyethyl) Phosphine", <i>J. Org. Chem.</i> 56(8): 2648-2650, 1991.
↓	*Gray, et al., "Echistatin Disulfide Bridges: Selective Reduction and Linkage Assignment", <i>The Protein Society</i> , 1749-1755, 1993.

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PJK	<p>*Gray, et al., "Disulfide Structures of Highly Bridged Peptides: A New Strategy for Analysis", <i>The Protein Society</i>, 1732-1748, 1993.</p>			
	<p>*Herbert, et al., "Reduction and Alkylation of Proteins in Preparation of Two-Dimensional Map Analysis: Why, When, and How?" <i>Electrophoresis</i>, 22: 2046-2057, 2001.</p>			
	<p>*Nakamura, et al., "Mass Spectrometric-Based Revision of the Structure of a Cysteine-Rich Peptide Toxin with Gamma-Carboxyglutamic Acid, TxVIIA, from the Sea Snail, Conus Textile", <i>Protein Science</i>, 5(3): 524-530, 1996.</p>			
	<p>*Olsson, et al., "Contribution of Disulphide Bonds to Antigenicity of Lep d 2, the Major Allergen of the Dust Mite Lepidoglyphus Destructor", <i>Molecular Immunology</i>, 35: 1017-1023, 1998.</p>			
	<p>*Smith, et al., "Localization of Antigenic Sites on Der p 2 Using Oligonucleotide-Directed Mutagenesis Targeted to Predicted Surface Residues", <i>Clinical and Experimental Allergy</i>, 27: 593-599, 1997.</p>			
	<p>*Smith, et al., "Recombinant Allergens for Immunotherapy: A Der p 2 Variant with Reduced IgE Reactivity Retains T-Cell Epitopes", <i>J. Allergy Clin. Immunol.</i> 101(3): 423-425, 1998.</p>			
	<p>*Smith, et al., "Reduction in IgE Binding to Allergen Variants Generated by Site-Directed Mutagenesis: Contribution of Disulfide Bonds to the Antigenic Structure of the Major House Dust Mite Allergen Der p 2", <i>Molecular Immunology</i>, 33(4/5): 399-405, 1996.</p>			
	<p>*Watson, et al., "Trapping and Identification of Folding Intermediates of Disulfide Bond-Forming Proteins Based on Cyanylation, Cleavage, and Analysis by Mass Spectrometry", http://www.abrf.org/JBT/Articles/JBT0014/JBT0014.html. Pages 1-12. June 15th 1998</p>			
	<p>*Wu, et al., "A Novel Methodology for Assignment of Disulfide Bond Pairing in Proteins", <i>Protein Science</i>, 6(2): 391-398, 1997.</p>			
EXAMINER	<p>Zhou, et al., "Assignment of Disulfide Bonds in Proteins by Partial Acid Hydrolysis and Mass Spectrometry", <i>Journal of Protein Chemistry</i>, 9(5): 523-532, 1990.</p>			
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